

Reconocimiento de Patrones

Version 2022-II

Definiciones

[Capítulo 1]

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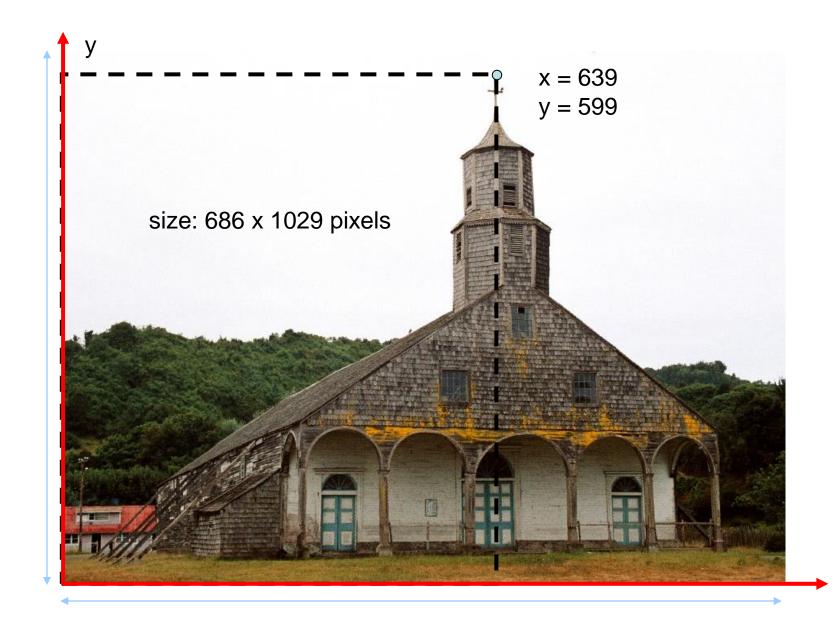
Imágenes Digitales



Imágenes Digitales (zoom)



Imágenes Digitales (coordenadas)



Imágenes Digitales (color)









Imágenes Digitales (color a blanco y negro)

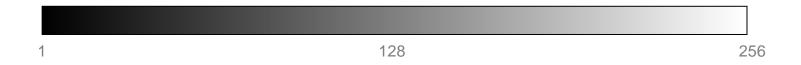


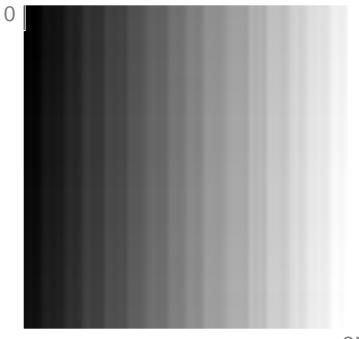






Imágenes Digitales (tonos de gris)





255

Imágenes Digitales (operaciones)

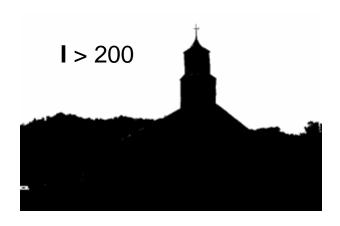




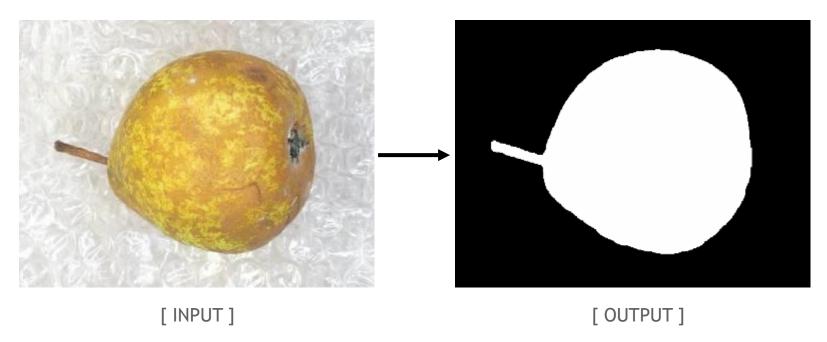


Imágenes Digitales (operaciones)













[INPUT]













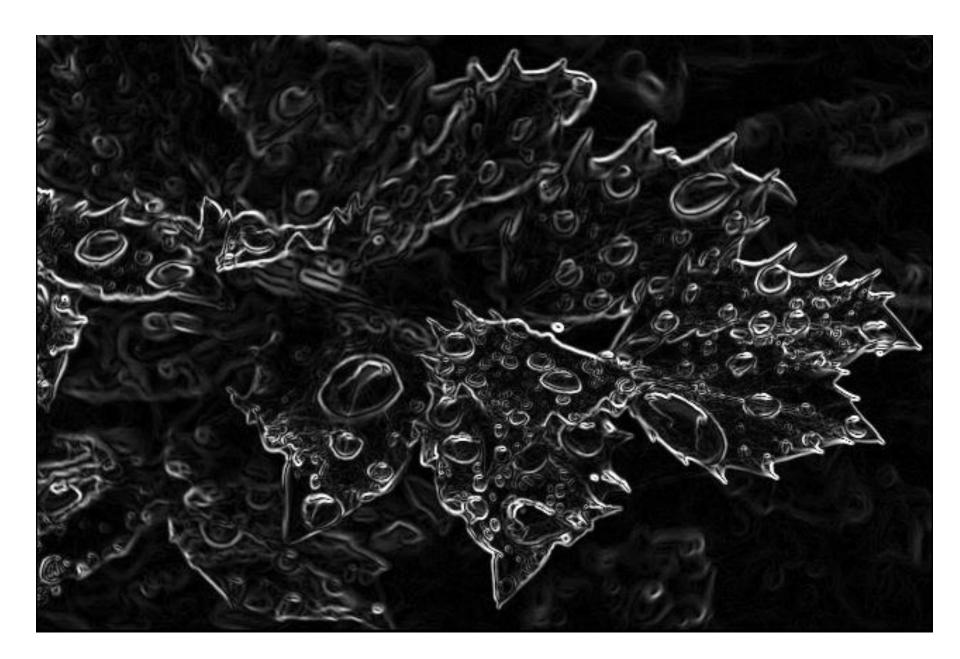












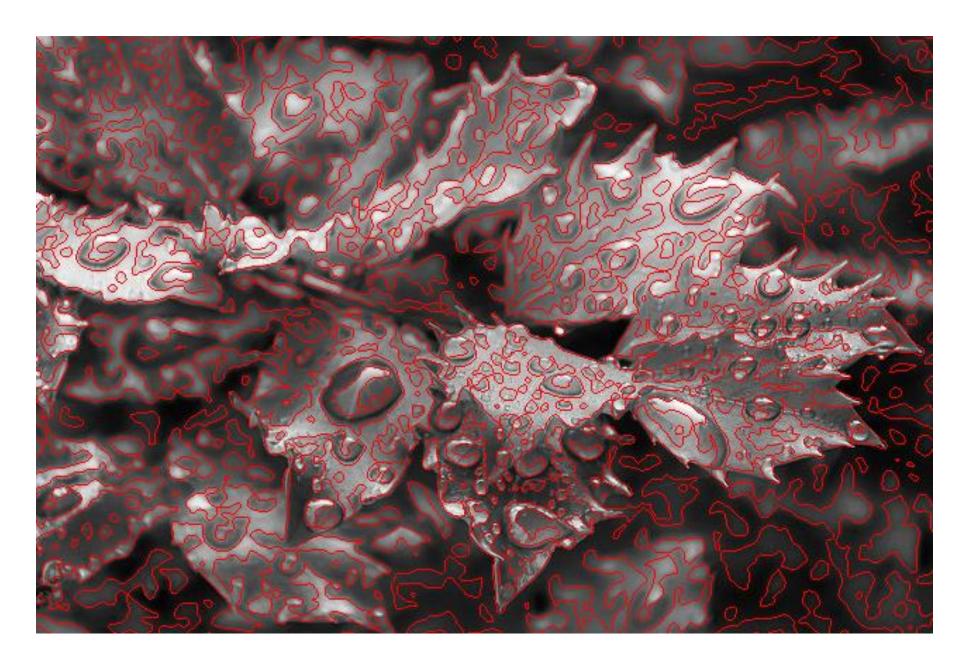
















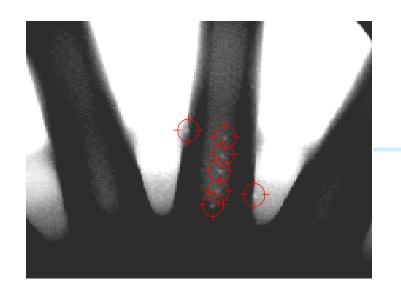




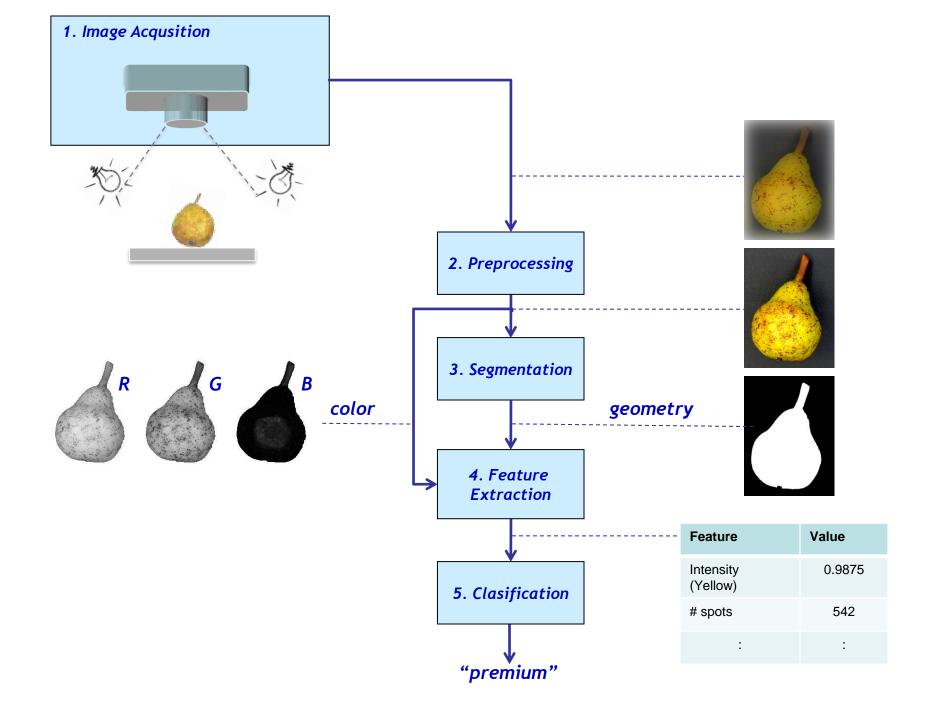


Image Analysis:

The use of computer algorithms that take an image as input and return a measurement, an interpretation or a decision.

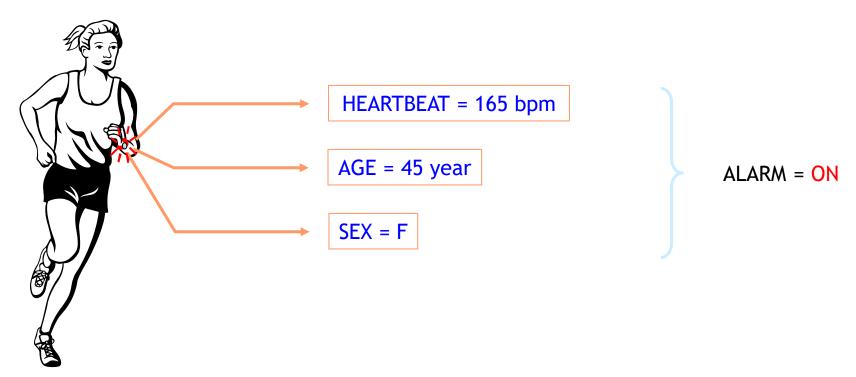


The wheel has 7 defects

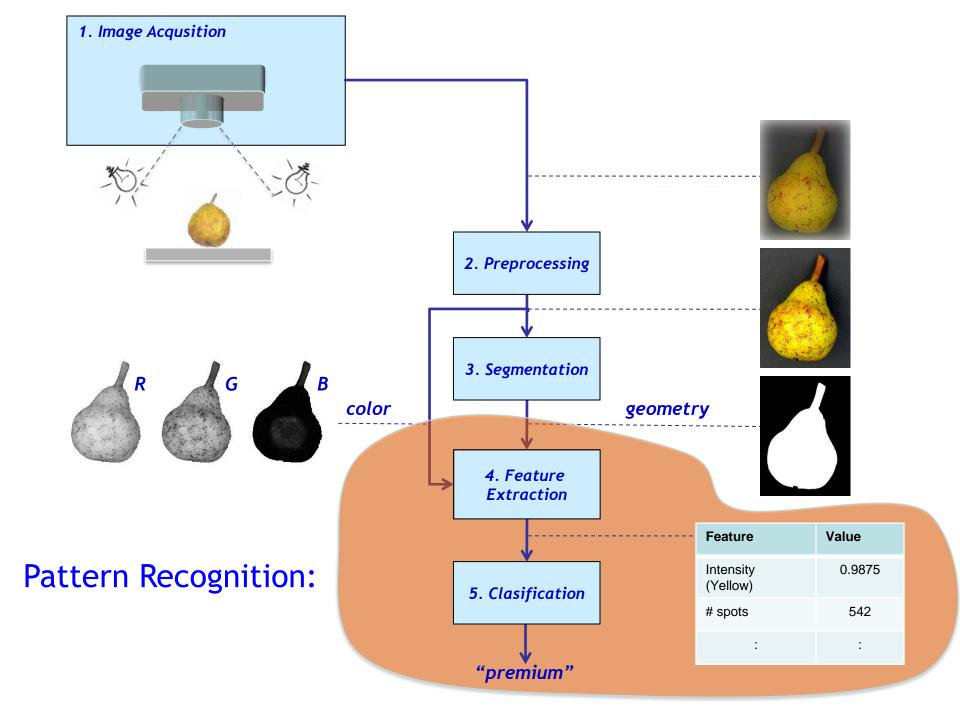


Pattern Recognition:

It is the science of making inferences based on data. Usually, it measures an object in order to assign it to a class.

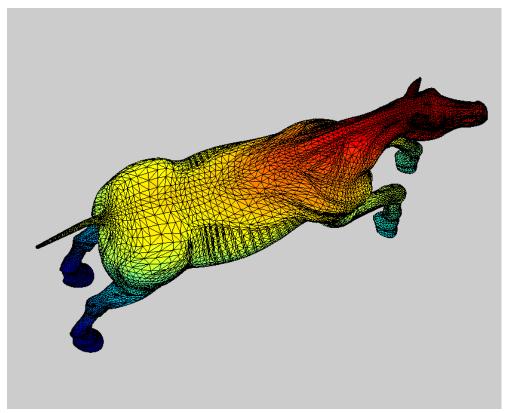






Computer Graphics:

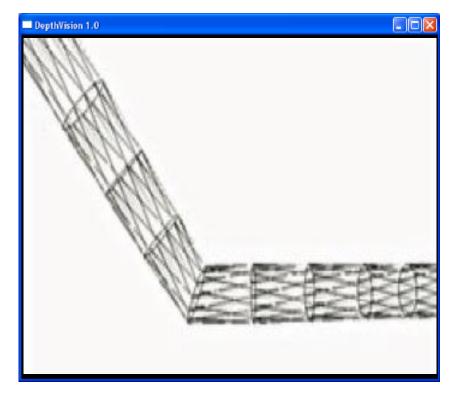
The use of computer algorithms to generate images from models (3D objects, texture, color, illumination, etc.).

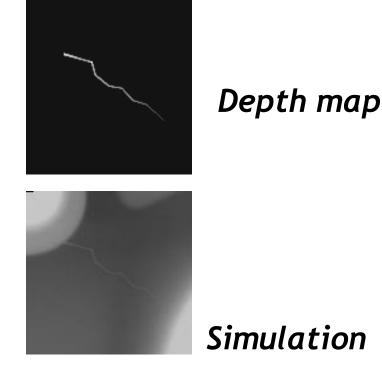




Computer Graphics:

The use of computer algorithms to generate images from models (3D objects, texture, color, illumination, etc.).





3D mesh

Mery, D.; Hahn, D.; Hitschfeld N. (2005): Simulation of Defects in Aluminium Castings Using CAD Models of Flaws and Real X-ray Images. Insight, 47(10):618-624. [PDF]

Computer Graphics:

The use of computer algorithms to generate images from models (3D objects, texture, color, illumination, etc.).



Computer Vision:

Computer vision is the science of endowing computers the ability to see.

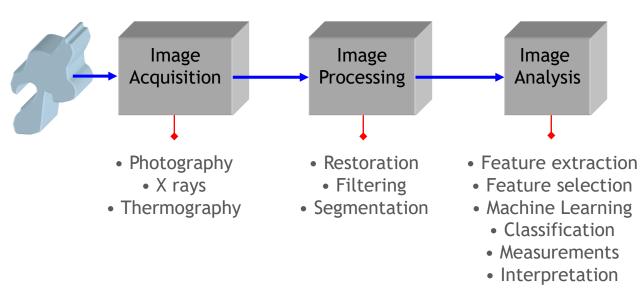
Computer Vision:

Computer vision is the science of endowing computers the ability to see.

Computer vision is a field that includes methods for acquiring, processing, analyzing, and understanding images and, in general, high-dimensional data from the real world in order to produce numerical or symbolic information, e.g., in the forms of decisions.

Computer Vision System:

Object



Computer Vision System:

